

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: August 13, 2001, 12:22:04 ; Search time 59.73 Seconds

(without alignments)
534.888 Million cell updates/sec

Title: US-09-784-340-2

Perfect score: 2802
Sequence: 1 MRSDKSAVFLLDLQFCVGC.....KCFLECKQKFKTKREKRE 527

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 412676 seqs, 60623988 residues

Total number of hits satisfying chosen parameters: 412676

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08
Maximum Match 1008

Listing first 45 summaries

Database :

A_Geneseq_0601.*
1: /SIDSI/gcgcdata/geneseq/geneseq/AA1980.DAT.*
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10: /SIDSI/gcgcdata/geneseq/geneseq/AA1989.DAT.*
11: /SIDSI/gcgcdata/geneseq/geneseq/AA1990.DAT.*
12: /SIDSI/gcgcdata/geneseq/geneseq/AA1991.DAT.*
13: /SIDSI/gcgcdata/geneseq/geneseq/AA1992.DAT.*
14: /SIDSI/gcgcdata/geneseq/geneseq/AA1993.DAT.*
15: /SIDSI/gcgcdata/geneseq/geneseq/AA1994.DAT.*
16: /SIDSI/gcgcdata/geneseq/geneseq/AA1995.DAT.*
17: /SIDSI/gcgcdata/geneseq/geneseq/AA1996.DAT.*
18: /SIDSI/gcgcdata/geneseq/geneseq/AA1997.DAT.*
19: /SIDSI/gcgcdata/geneseq/geneseq/AA1998.DAT.*
20: /SIDSI/gcgcdata/geneseq/geneseq/AA1999.DAT.*
21: /SIDSI/gcgcdata/geneseq/geneseq/AA2000.DAT.*
22: /SIDSI/gcgcdata/geneseq/geneseq/AA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1924.5	68.7	529	21	Human carbohydrate
2	1732	61.8	530	19	Uridine diphospho-
3	1729	61.7	528	21	Human UDP-glucuron
4	1713	61.1	530	21	Human UDP-glucuron
5	1673.5	59.7	524	21	Human UDP-glucuron
6	1120	40.0	533	13	Human UDP-glucuron
7	1058.5	37.8	534	13	Human UDP-glucuron
8	755.5	27.0	245	21	UDP-glucuronosyltr
9	714.5	25.5	523	21	Human PRO1780 prot
10	714.5	25.5	523	21	Human PRO1780 (UNO
11	714.5	25.5	523	22	Protein of the inv

12	708.5	25.3	523	22	AA88348	Human membrane or
13	405	14.5	78	21	AA603280	Human secreted pro
14	391	14.0	129	20	AA29525	Human lung tumour
15	391	14.0	129	21	AA84441	Human lung tumour
16	383.5	13.7	288	21	AA57092	UDP-glucuronosyltr
17	349.5	12.5	310	21	AA57098	UDP-glucuronosyltr
18	341	12.2	287	13	AA830189	UGT1F Exon 1 produ
19	341	12.2	287	21	AA57096	UDP-glucuronosyltr
20	327.5	11.7	317	21	AA57097	UDP-glucuronosyltr
21	326	11.6	289	13	AA830190	UGT1F Exon 1 produ
22	326	11.6	289	21	AA57093	UDP-glucuronosyltr
23	321	11.5	289	21	AA57094	UDP-glucuronosyltr
24	320	11.4	289	21	AA57095	UDP-glucuronosyltr
25	317.5	11.3	253	21	AA57099	UDP-glucuronosyltr
26	317	11.3	516	20	AA808462	M. brassicae eclys
27	316	11.3	289	13	AA830192	UGT1F Exon 1 produ
28	297.5	10.6	98	13	AA830166	UGT1F Exon 4 produ
29	294.5	10.5	248	13	AA830191	Ecdysteroid UDP-gl
30	274.5	9.8	515	19	AA856750	UGT1A Exon 1 produ
31	262	9.4	243	13	AA830194	Human colon cancer
32	260	9.3	94	21	AA853721	Ecdysteroid UDP-gl
33	254.5	9.1	506	12	AA810429	UGT1 Exon 4 produ
34	235	8.4	74	13	AA830165	UDP-glucose:thiohy
35	190	6.8	466	18	AA809825	zeaxanthin glycosy
36	175	6.2	399	12	AA813989	Polypeptide with e
37	175	6.2	431	11	AA807464	Protein encoded by
38	175	6.2	431	20	AA887890	Human prostate can
39	171.5	6.1	68	21	AA856504	Arabidopsis thalia
40	171.5	6.1	439	21	AA804893	Arabidopsis thalia
41	171.5	6.1	445	21	AA804892	Arabidopsis thalia
42	171.5	6.1	460	21	AA840011	Arabidopsis thalia
43	171.5	6.1	465	21	AA840010	Arabidopsis thalia
44	171.5	6.1	460	21	AA804891	Arabidopsis thalia
45	171.5	6.1	481	21	AA840009	Arabidopsis thalia

ALIGNMENTS

RESULT	1
AA828677	standard; Protein: 529 AA.
XX	
AC	AA828677;
DT	13-FEB-2001 (first entry)
XX	
DE	Human carbohydrate-modifying enzyme Incyte ID No: 2912310CD1.
XX	
KW	Human: carbohydrate-modifying enzyme; CME: antidiabetic;
KW	Immunosuppressive; anti-HIV; antiinflammatory; antinaemic;
KW	antiallergic; antihypertensive; antihypertensive; osteoporotic;
KW	neurotrophic; antiproliferative; neuroprotective; osteoporotic;
KW	antiarthritic; antiproliferative; uropathic; ophthalmologicall;
KW	dermatological; antitumor; cytostatic; vincetristine; antibacteri;
KW	fungicide; protozoicide; tranquiliser; vulnery; diabetes;
KW	autoimmune disorder; inflammatory disorder; infection.
XX	
OS	Homo sapiens.
XX	
PN	WO200063351-A2.
XX	
PD	26-OCT-2000.
XX	
PF	20-APR-2000; 2000WO-US10882.
XX	
PR	21-APR-1999; 99US-0130383.
XX	
PA	(INCYTE) INCYTE GENOMICS INC.
XX	
PI	Ial P, Yue H, Tang YT, Hillman JL, Baughn MR, Yang J;
XX	
DR	WPI; 2000-672729/65.

DR N-PSDB: AAC65396.

XX Novel carbohydrate modifying enzyme polypeptides and polynucleotides
PT for diagnosis, treatment, and prevention of carbohydrate metabolism
PT disorders, autoimmune/inflammatory disorders, and cancer

PS Claim 1: Page 71-72; 75pp; English.

XX The present sequence is a human carbohydrate-modifying enzyme
CC (CME). CME polynucleotides and polypeptides are useful for treating and
CC diagnosing diseases associated with CME such as diabetes,
CC autoimmune/inflammatory disorders such as AIDS, Addison's disease,
CC adult respiratory distress syndrome, allergies, anaemia, asthma,
CC atherosclerosis, autoimmune thyroiditis, bronchitis, cholecystitis,
CC contact dermatitis, Crohn's disease, emphysema, erythroblastosis fetalis,
CC glomerulonephritis, Good pasture's syndrome, gout, Grave's disease,
CC Hashimoto's thyroiditis, multiple sclerosis, myasthenia gravis,
CC osteoarthritis, osteoporosis, pancreatitis, polyostitis, psoriasis,
CC Reiter's syndrome, arthritis, scleroderma, Sjogren's syndrome, systemic
CC lupus erythematosus, ulcerative colitis, uveitis, Werner syndrome,
CC complications of cancer, haemodialysis, and extracorporeal circulation,
CC viral, bacterial, fungal parasitic, protozoal, and helminthic infections,
CC trauma, or cancer. CME, or its catalytic or immunogenic fragment, is
CC useful for drug screening.

XX Sequence 529 AA;

Query Match 68.7%; Score 1924.5; DB 21; Length 529;
Best Local Similarity 69.9%; Pred. No. 1.5e-197;
Matches 369; Conservative 47; Mismatches 109; Indels 3; Gaps 2;

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OY 3 SDRALYFLLOLFC-VGCGFCGKVLVPCDMSHNLNKKVLEELIVGHEVTLTHSKP 61
DB 2 smktsailllqscyscgkvlwptefshnmikltdelvgryhevtlaasas 61
OY 62 SLIDRRPALKFEVMPDRTENEIPVDALN-VLUGLSWQSVIKLNDPFEVIRG 119
DB 62 tsfmspsltkfevysltktefedilqlykrwaelpdtwysfysqelmwtfnd 121
OY 120 TLKMCSSFIYNOTLMMKLOETNYDWLIDVIPCGLMAELLAVPVLTLRISVGNME 179
DB 122 ilkkfcdivsnkklmkkgserfdvldavpfglbellkkiprvyltrfspyraie 181
OY 180 RSGGKLPAPLSYVPVMTGLDRTMFLERKNSLSVLFHFWIODYHFWEEFYSKALG 239
DB 182 khsggllfpssyvpvmseisdqmtfiterkmllylytefwtgfdmkkdqfysevlj 241
OY 240 RPTTLCEYKAEIWLIRTYWDFEPQYQPNFEFVGGLHCKPAKALPKEMENFYOSSGE 299
DB 242 rpttlsetmakadiwlirnywdfqfbrpdlpveifvgglhckpapaklpkemeefvsgsge 301
OY 300 DGLVFSLSGLFONVTEKANIITASALAOIPKVLWRKYGKGRSTLGANTRLYDWTPOND 359
DB 302 ngvvvllsgmsvntseeteanviasalakipgkvltwrfdgnkptdglntlrlykwpnd 361
OY 360 LIGHPTKAFITGNGNGIYEATYHGVPMVGPVIFGDDOINDIAHMAKAGAIVEINFKTYT 419
DB 362 lighptkafitlgngmglyealyhgvpmvgyplfgdldniahmakagaaveinfknt 421
OY 420 SEDLALRLFTVITDSSYKENAMRLSRIHNDOPKPLDRAVVFVIEFVRRKGAHKLISAAN 479
DB 422 sedllralrtvtltdssykenamrlsrinhdpkprldravvfiefvrrmkghakhlisaan 481
OY 480 DLTWFOHYSIDVIGLTLTVATAIFLFTGFLFSCCKENKTKIKREK 527
DB 482 dltwfhysidvlgfltlcvataiflftckflfscgkfnktrkiekre 529

```

RESULT 2
AAW47126
ID AAW47126 standard; Protein; 530 AA.
XX

AC AAW47126;
XX 26-MAY-1998 (first entry)
DT
XX
DE Uridine diphospho-glucuronosyltransferase 2B17 (UGT2B17) enzyme.

KW Uridine diphospho-glucuronosyltransferase 2B17; UGT2B17; catalyse;
XX androstereone; androstereone-glucuronic acid; androgen; enzyme.

OS Homo sapiens.

PN MO9744466-A1.

XX 27-NOV-1997.

PF 16-MAY-1997; 97WO-CA00328.

PR 17-MAY-1996; 96US-0649319.

PA (EMDO-) ENDORECHERHE INC.

PI Beaulieu M, Belanger A, Hum DW, Levesque E;

DR WPI: 1998-018520/02.

DR N-PSDB: AAV15900.

PT DNA encoding uridine di:phospho:glucuronosyl:transferase 2B17 -

PT which catalyses conversion of androstereone to

XX androstereone-glucuronic acid

XX Claim 16; Pages 4-6; 53pp; English.

XX This is the enzyme uridine diphospho-glucuronosyltransferase 2B17
CC (UGT2B17). This novel enzyme catalyses the conversion of androstereone
CC to androstereone-glucuronic acid. The UGT2B17 can be used to detect
CC anti-UGT2B17 antibodies. The antibody can be used to detect a localised
CC concentration of UGT2B17 or an alteration in androgen activity. The
CC UGT2B17 can also be used to alter the concentration of an androgenic
CC compound in a tissue, specifically dihydrotestosterone. An isolated
CC nucleotide sequence comprising at least 30 consecutive nucleotides from
CC the coding region of the 2107 base pair sequence, or its complement can
CC be used to block the synthesis of UGT2B17, e.g. an expression disrupting
CC sense or antisense fragment, or as a probe for a UGT2B17 coding sequence.

XX Sequence 530 AA;

Query Match 61.8%; Score 1732; DB 19; Length 530;
Best Local Similarity 61.5%; Pred. No. 7.1e-177;
Matches 326; Conservative 74; Mismatches 112; Indels 18; Gaps 3;

```

OY 9 VFLLLOLFC-VGCGFCGKVLVPCDMSHNLNKKVLEELIVGHEVTLTHSKPSIDIR 67
DB 8 vflmlnglscyscgkvlwptefshnmikltdelvgryhevtlaasasllvas 67
OY 68 KRSALKFEVYHMPDRTENEIPVDALNVLPGLSWQSVIKLNDPFEVIRGTLK----- 123
DB 68 krsalkfevyhmpdrteneipvdalnvlpglstwosvirkndpfevirgtlk----- 123
OY 124 -----MCSFIYNOTLMMKLOETNYDWLIDVIPCGLMAELLAVPVLTLRISVGN 177
DB 121 sdynklcedavlnklnmkldeskdvlldavpfgellaellnlpfllyslrfsvgt 180
OY 178 MERSGKLPAPLSYVPVMTGLDRTMFLERKNSLSVLFHFWIODYHFWEEFYSKA 237
DB 181 vekngggflfpssyvpvmseisdqmtfiterkmllylytefwtgfdmkkdqfysevlj 240
OY 238 LGRPTLCEYKAEIWLIRTYWDFEPQYQPNFEFVGGLHCKPAKALPKEMENFYOSS 297
DB 241 lgrptlceykaemwlirtywdfepqfprfpdvdfvgglhckpapaklpkemeefvsgs 300
OY 298 GEDGIVFSLSGLFONVTEKANIITASALAOIPKVLWRKYGKGRSTLGANTRLYDWTPQ 357
DB 298 gedgivfslsglfnvteekaniitasaalaoipkvlmrkygkgrstlgantrlwdtpq 357

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Db	102	khsaggfltpbpsyvpvymseidldqmtfmervkmmiyvljydfdwfeifdmkxwdqfysevlj	241
Qy	240	RPPTLGEVFAAGAEIWLIRTYWDPEFPPOYPQNPFEVGLCHCKPAKALPKEMENFVOSGE	299
Db	242	rptlsetcmgkadvwlirnswnfgfppllpnvdfvgllnckpdkrplpkemedvqssge	300
Qy	300	DCIYVESLGSFLPQNYTEKANIISALAOIPQKYLWRYKGGKRPSTLGANTRLYDWIIPOND	359
Db	302	ngvvvfisgismwsmteerannvasalaqlpqkvllwfrfdgnkpcdtlglntcrykwiipnd	361
Qy	360	LLGHKRTAFTTHGGMNGIYEATIGHGVPWGVPIFGDOLNIAHMKAKGAAVEINFTMT	419
Db	362	llhnpkrtatflthggaanglyealyhglpmvaylplfdaqpdlamkargaavvndltms	421
Qy	420	SEDLRALRLRTYITSSYXENMARLSRIHHDPVPELROPAVFEVYRHHGAKHLRSAAH	479
Db	422	stdllnakrlkrylndpsykemwtklsrlqhdqpvprldravfelfefmrnhgakhlyraah	480
Qy	480	DLTFQKHSIDVIGFLLTCVATAIPLFPLKCFSLSCQKPKNTRK	522
Db	482	dltwfghysldvlgllvcvatvifvlkcolfcfwkfarak	524
RESULT 6			
AAAR26153	ID	AAAR26153 standard; Protein: 533 AA.	
AAAR26153;	AC		
27-JAN-1993	DT	(first entry)	
HUG-Brl.	DE		
Bilirubin: UDP-glucuronosyltransferase; HUGBr1; HUGBr2;	KW		
monoglucuronide; diglucuronide.	KV		
Homo sapiens.	OS		
Key	FH	Location/Qualifiers	
Region	FH	10..20	
Region	FT	/note= "putative membrane-insertion signal"	
Region	FT	491..507	
Modified-site	FT	/note= "putative membrane-anchoring peptide"	
Modified-site	FT	102	
Modified-site	FT	/note= "predicted Asn-linked glycosylation site"	
Modified-site	FT	295	
Modified-site	FT	/note= "predicted Asn-linked glycosylation site"	
Modified-site	FT	347	
Misc-difference	FT	/note= "predicted Asn-linked glycosylation site"	
Misc-difference	FT	158	
Misc-difference	FT	/note= "feature not labelled in specification"	
Misc-difference	FT	181	
Misc-difference	FT	/note= "feature not labelled in specification"	
Misc-difference	FT	228	
Misc-difference	FT	/note= "feature not labelled in specification"	
W09212987-A.	PN		
06-AUG-1992.	PD		
10-JAN-1992;	PE	92MO-US00282.	
10-JAN-1991;	PR	91US-0639453.	
(USSH) US DEPT HEALTH & HUMAN SERVICE.	PA		
Owens IS, Rittler JK;	PI		
WPI: 1992-284593/34.	DR		
N-PSDB: AAQ27369.	DR		
Isolated gene locus UGT1, DNA segments and diagnostic probes -	PT		
for diagnosing Gilbert's disease and Crigler-Najjar syndrome	PT		

PT	types I and II
XX	
PS	Disclosure; Fig 9A-I; 99pp; English.
XX	
CC	Two human liver bilirubin UDP-glucuronosyltransferase cDNAs have
CC	been isolated. They are referred to as HUGBr1 (AA027369) and HUGBr2
CC	(AA027370) (Butter, et al., J. Biol. Chem. 266:1043-1047 (1991)) and,
CC	upon expression individually in COS-1 cells, encode isoforms that
CC	catalyze the formation of the two bilirubin monoglucuronides and
CC	the diglucuronide.
CC	The cDNAs contain identical 3' ends (1469 bp in length) to each
CC	other and to that of the human phenol transferase cDNA, HUGCpl
CC	(Harding et al., Proc. Natl. Aca. Sci. USA 85:8281 (1988)).
XX	In contrast, they have unique 5' ends.
XX	
SQ	Sequence 533 AA;
Query Match	40.0%; Score 1120; DB 13; Length 533;
Best Local Similarity	45.0%; Pred. No. 3,8e-111;
Matches 232; Conservative 88; Mismatches 186; Indels 10; Gaps 6;	
OY	15 LFCV---GCGPCGKVLWVPCDMSHNLANKVILEELIVNGHEVTYLTHSKPRLIDYRKSQA 71
DB	16 ILICVPPVSHAGKILLIPVDGSHLISMLGAIGLQDGQHVELVA--PLASLYITDGA 72
OY	72 L-KFEVHPMPDRTEENLEFVDALNVLPGISTMQSVTIKLDFEIRGTLMKCSESTY 130
DB	73 FYTLKTYPRVFREDVKESIVSLGNVLENDSEFIQTVIKTKYKKIKKDSAMLLSGCSHLIH 132
OY	131 NOTLKMKLOETNYDWMLIDVPVIPCGLDMAELLAVPEVLTLRISVGNNERSCGKLAPLS 190
DB	133 NKLMASSLAESSFDVMI LDFPICPSPVIAQYLSIPTVFLLH-ALPCSIEAFEATQPDPFS 191
OY	191 YVRPVMTGITDPMATLELVKSNMSELVLFHFMYOODYIFWEFFYSKALGRPTTLCETYGK 250
DB	192 YVPRILSHSDIMFLIQLGVKNMILAISGFN-LCDVVSPRYATLASSEFIQREVTVGDILLS 250
OY	251 AEIMLIRTYWDPEFPQRPQNPEFVGSIHCCKPAKALPKEMENFYOSSGEDEIVVFSLSGL 310
DB	251 ASVWLFREDFVDYDPRIMPMMNVIVGGINCLIQNPISGSFEAYINAAGEHGIVVFLESQM 310
OY	311 FQNTVEERANITASALAOIPQKVLMRWYRKGRKPSTIGANTRLXYDIWPQNDLGHPKTKAFI 370
DB	311 VSEIPKKAAMADALGIKIPQVLVWYLGCTRPSNIANNCLLVKWLPNQDLIGHPMTRAFI 370
OY	371 THGGMGNGIYEALHYHGPVHWGVPVIFEDODLNATHMKAKAAVAEINKTKTSSDLRALFTV 430
DB	371 THAGSHGYVESICNGVPHVMNMPLIFGQDMNAKIMEIKDAQYVLNVLNLENTSDELNAQGAV 430
OY	431 ITDSSYKKEAMALLSRHHNDOPYKRIIDRAVNFVEEFWRKRGKHLRSAAHDTLFWCHSYID 490
DB	431 INDKSKYKENIMLISLIHCDPREPDIALVETWEIWMIRKHGPRLIPAANDLTWQYHSID 490
OY	491 VIGFLITCVATAPLETFKCFLESCOK-PNKTRKIEK 525
DB	491 VIGFILAVLITVAIFTKCAQYGYXCKIGKKGYVK 526
RESULT 7	
ID	AAR26154
AC	AAR26154 standard; Protein; 534 AA.
XX	
XX	AAR26154;
XX	
DT	27-JAN-1993 (first entry)
XX	
DE	HUG-Bf2.
XX	
KM	Bilirubin: UDP-glucuronosyltransferase; HUGBr1; HUGBr2;
KW	monoglucuronide; diglucuronide.
XX	
OS	Homo sapiens.

```

XX Key Location/Qualifiers
FH Region 12..22
FT /note="putative membrane-insertion signal"
FT Region 492..508
FT /note="putative membrane-anchoring peptide"
FT Modified-site 348
FT /note="predicted Asn-linked glycosylation site"
FT Misc-difference 282..285
FT /note="residues encoded by TGCACAACGGAC !"
XX WO9212987-A.
XX 06-AUG-1992.
XX 10-JAN-1992; 92WO-US00282.
XX 10-JAN-1991; 91US-0639453.
XX (USSH ) US DEPT HEALTH & HUMAN SERVICE.
XX Owens IS, Rilter JK;
XX WPI: 1992-284593/34.
XX N-PSDB; AAQ27369.
XX Isolated gene locus UGT1, DNA segments and diagnostic probes -
XX for diagnosing Gilbert's disease and Crigler-Najjar syndrome
XX types I and II
XX Disclosure; Fig 9A-I; 99pp; English.
XX Two human liver bilirubin UDP-glucuronosyltransferase cDNAs have
XX been isolated. They are referred to as HUGB1 (AAQ27369) and HUGB2
XX (AAQ27370) (Rilter, et al., J. Biol. Chem. 266:1043-1047 (1991)) and,
XX upon expression individually in COS-1 cells, encode isoforms that
XX catalyse the formation of the two bilirubin monoglucuronides and
XX the diglucuronide.
XX The cDNAs contain identical 3' ends (1469 bp in length) to each
XX other and to that of the human phenol transferase cDNA, HUGP1
XX (Harding et al., Proc. Natl. Aca. Sci. USA 85:8281 (1988)).
XX In contrast, they have unique 5' ends.
XX Sequence 534 AA:
SQ
Query Match 37.8%; Score 1058.5; DB 13; Length 534;
Best Local Similarity 41.9%; Pred. No. 1.5e-104;
Matches 227; Conservative 86; Mismatches 172; Indels 57; Gaps 8;
QY 11 LLLQLFCVCGGCGKVLWPCDMSHMLNVKVLLEELIVRGHEVTVL-----HKKP--- 61
DB 16 LLLLlsvqmaesgkvlvprtdgspwlsmealrelharthgavvlprgeyahgeekff 75
QY 62 SLIDYKPPSALK-----FEVHMPQDRTEENEIEFDLALNLVLPGLSTQSVI 108
DB 76 ltlayavpwtqkefdvltlygtgfetehlIkryrsmaimnvsI----- 122
QY 109 KLNDFFVEIRGTLKMKCESRIVNOTLKKLQENINVMALIDYIPGCDLMAELIAPVYL 168
DB 123 -----alhrcveallhnealirhnatstidvltlpgnlgavllakylsipaYf 171
QY 169 TURISVGNMERSCGRLPAPLSTYVPMTGLDRMTFLERVKSM---LSVLFHWID 224
DB 172 fwrty-lpcldlfdkfgtgcpcpsysipklitndmftfgrvkmlyplalsyichitsap 230
QY 225 YVHFWHEEYSKALGRPTLCEVGAELIWLIRTYWDFEFPQYOPNFEFVGLHCKPAX 284
DB 231 Y-----aslaselfgrevlvqdlssaswvlfrsdftvkdyppimnmvffgincangk 285
QY 285 ALPKEMENFVSSGEGIVYFSLGSLFQVTEPEKANITASALAOIPQKVLWKYKGRKST 344
DB 286 pslsgtefylnasgehgvlvflsvlesmvseipekkamadalqkIptvtlvrytgrtprsn 345

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QY 345 LGANRLYDWMIPONDLLGHPKTKAFITGGMNGIYEATIGHVPMYGVPIFGQDLNIAM 404
DB 346 lannlllkwlpqndllghpmttraflthagsngyveslcnqyvmwmpplfgqmdnakrm 405
QY 405 KAKGAAVEINEKTMWSEDLRALRTVITDSSYKEMARLSRIHNDQPKPLDRAVFWIEF 464
DB 406 elkgagvltlnvlemtsedlennaqkavindksykenimrlsslhkdrprepldlavfwef 465
QY 465 VMRHKGAKHLSAAHDLWMPHYSIDVIGELLTCAATLAFETKCFLESCOK-FNKTAKI 523
DB 466 vmrhkgaphltpaandltwyghslvlgfillavlltvalitfkccaygkclgkxgrv 525
QY 524 EK 525
DB 526 Kk 527
RESULT 8
ID AA57100 standard; Protein: 245 AA.
XX AA57100;
XX 28-FEB-2000 (first entry)
XX UDP-glucuronosyltransferase 1 (UGT1) exons 2-5 amino acid sequence.
XX uridine diphosphate-glucuronosyltransferase 1; UGT1; polymorphism; probe;
XX glucuronic acid; Crigler-Najjar syndrome; Gilbert syndrome; jaundice;
XX unconjugated hyperbilirubinaemia; drug metabolism; transgenic animal;
XX pharmacogenetic screening; diagnose.
XX Homo sapiens.
XX WO957322-A2.
XX 11-NOV-1999.
XX .04-MAY-1999; 99WO-US09702.
XX 07-MAY-1998; 98US-0084807.
XX (AXYS-) AXYS PHARM INC.
XX Penny L, Galvin M;
XX WPI: 2000-052981/04.
XX N-PSDB; AA45118.
XX New nucleic acid representing polymorphisms in the human uridine
XX diphosphate glucuronosyltransferase gene, used for diagnosis and
XX evaluation of drug metabolism
XX Examples; Page 44-45; 63pp; English.
XX AA57092-157100 are the amino acid sequences of exons 1A-1J of human
XX uridine diphosphate-glucuronosyltransferase 1 (UGT1). The UGTs are a
XX family of enzymes that catalyse the glucuronic acid conjugation of a
XX wide range of endogenous and exogenous substrates including phenols,
XX alcohols, amines and fatty acids. Many of the reactions catalysed by
XX UGTs result in toxic substances being converted to compounds which are
XX more water soluble and are excreted. The invention relates to and
XX identifies UGT1 polymorphisms (AA245004-245041). The polymorphism
XX sequences are useful as probes for detecting UGT1 locus polymorphisms,
XX indicative of altered UGT1 expression or activity. These polymorphisms
XX are associated with Crigler-Najjar and Gilbert syndromes (unconjugated
XX hyperbilirubinaemia) and drug metabolism. The genotyping of the UGT1 gene
XX is used to predict the rate of metabolism of UGT1 substrates, possible
XX drug-drug interactions and adverse side effects (i.e. to optimize drug
XX dosage), and to screen for diseases caused by exposure to toxins and to
XX study the effects of polymorphisms on enzymatic activity. The UGT1
XX sequences, including polymorphisms, can also be used to produce the

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PD 09-MAR-2000.
 XX 01-SEP-1999; 99WO-US20111.
 PE
 PR 01-SEP-1998; 98US-0098716.
 PR 01-SEP-1998; 98US-0098749.
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 PR 09-SEP-1998; 98US-0099596.
 PR 09-SEP-1998; 98US-0099598.
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 PR 10-SEP-1998; 98US-0099763.
 PR 10-SEP-1998; 98US-0099792.
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 PR 15-SEP-1998; 98US-0100388.
 PR 15-SEP-1998; 98US-0100390.
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 PR 16-SEP-1998; 98US-0100627.
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 PR 16-SEP-1998; 98US-0100664.
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 PR 17-SEP-1998; 98US-0100684.
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 PR 17-SEP-1998; 98US-0100711.
 PR 17-SEP-1998; 98US-0100919.
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 PR 18-SEP-1998; 98US-0100848.
 PR 18-SEP-1998; 98US-0101014.
 PR 18-SEP-1998; 98US-0101014.
 PR 18-SEP-1998; 98US-0101068.
 PR 18-SEP-1998; 98US-0101071.
 PR 23-SEP-1998; 98US-0101279.
 PR 23-SEP-1998; 98US-0101471.
 PR 23-SEP-1998; 98US-0101472.
 PR 23-SEP-1998; 98US-0101474.
 PR 23-SEP-1998; 98US-0101475.
 PR 23-SEP-1998; 98US-0101476.
 PR 23-SEP-1998; 98US-0101477.
 PR 23-SEP-1998; 98US-0101479.
 PR 24-SEP-1998; 98US-0101738.
 PR 24-SEP-1998; 98US-0101741.
 PR 24-SEP-1998; 98US-0101743.
 PR 24-SEP-1998; 98US-0101745.
 PR 24-SEP-1998; 98US-0101915.
 PR 24-SEP-1998; 98US-0101916.
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 PR 29-SEP-1998; 98US-0102240.
 PR 29-SEP-1998; 98US-0102307.
 PR 29-SEP-1998; 98US-0102330.
 PR 30-SEP-1998; 98US-0102331.
 PR 30-SEP-1998; 98US-0102484.
 PR 30-SEP-1998; 98US-0102487.
 PR 30-SEP-1998; 98US-0102570.
 PR 30-SEP-1998; 98US-0102571.
 PR 01-OCT-1998; 98US-0102684.
 PR 01-OCT-1998; 98US-0102687.
 PR 02-OCT-1998; 98US-0102965.
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 PR 06-OCT-1998; 98US-0103449.
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 PR 07-OCT-1998; 98US-0103315.
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 PR 07-OCT-1998; 98US-0103401.
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 PR 08-OCT-1998; 98US-0103711.
 PR 14-OCT-1998; 98US-0104257.
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 PR 22-OCT-1998; 98US-0105266.
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 PR 26-OCT-1998; 98US-0105694.
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 PR 03-NOV-1998; 98US-0106934.
 PR 10-NOV-1998; 98US-0106934.
 PR 17-NOV-1998; 98US-0107783.
 PR 17-NOV-1998; 98US-0108775.
 PR 17-NOV-1998; 98US-0108779.
 PR 17-NOV-1998; 98US-0108787.
 PR 17-NOV-1998; 98US-0108788.
 PR 17-NOV-1998; 98US-0108801.
 PR 17-NOV-1998; 98US-0108802.
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 PR 17-NOV-1998; 98US-0108807.
 PR 17-NOV-1998; 98US-0108825.
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 PR 18-NOV-1998; 98US-0108849.
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 PR 18-NOV-1998; 98US-0108851.
 PR 18-NOV-1998; 98US-0108852.
 PR 18-NOV-1998; 98US-0108858.
 PR 18-NOV-1998; 98US-0108904.
 PR
 PA (GETH) GENENTECH INC.
 XX
 PI Baker K, Goddard A, Gurney AL, Smith V, Watanabe CK, Wood WI;
 XX WPI: 2000-237871/20.
 DR N-PSDB; AAA37101.
 DR
 XX
 PT New mammalian DNA sequences encoding transmembrane, receptor or
 PT secreted PRO polypeptides, useful for screening of potential peptide or
 PT small molecule inhibitors of the relevant receptor/ligand interactions
 XX
 PS
 PS Claim 12; Fig 160; 773pp; English.
 CC AAA37022 to AAA37144 encode the new isolated human transmembrane,
 CC receptor or secreted PRO polypeptides given in AAy9340 to AAy9462. The
 CC transmembrane and receptor PRO proteins can be used for screening of
 CC potential peptide or small molecule inhibitors of the relevant
 CC receptor/ligand interactions. The polypeptides and nucleotide sequences
 CC encoding then have various industrial applications, including uses as

CC pharmaceutical and diagnostic agents, AAA37145 to AAA37330 represent
CC PCR primers and hybridisation probes used in the isolation of the PRO
CC polypeptides from the present invention.

XX Sequence 523 AA;

Query Match 25.5%; Score 714.5; DB 21; Length 523;

Best Local Similarity 33.9%; Pred. No. 1.3e-67;

Matches 172; Conservative 93; Mismatches 208; Indels 35; Gaps 13;

34 SHMLNWKVIELLEIRGHEVYVLTGHSK-PSLIDYKPKSAKFEVYH--MPQDRENEIF 90
34 shylmdtvsqllqgdnvmlnhkrgpfmdfkkeek-syqvswslapedhgreffks 92
Db 34 shylmdtvsqllqgdnvmlnhkrgpfmdfkkeek-syqvswslapedhgreffks 92
Qy 91 VDLAL-NVLPGLSTWOSVYKINDFEVEIRGTLKMMCESFIYQOTLMKKLOETNYDVMLID 149
Db 93 fdfleeetlgrgkfenlnvley-----lajqcsfhnrdkmdsknenfmdvive 145
Qy 150 PVIRCGDLMAELAVPVLTIRISYGVGMERSCKLPAPLSVVPVMTGLTDRMTLEERV 209
Db 146 tfdycpfliaeklgkpfvaistef-gsliefg---lpiplyvpyfrslltchmdfwgrv 201
Qy 210 KNSMLSVLF---HFWIDYDHFMEERYSKALGRPTLCTGVGAELIWLIRTYWDEEFP 265
Db 202 knlfmfscrrqgmstcndtkhefte---gsrpylshlllkaelwfnstdafda 258
Qy 266 QPYOPNFEFVGGLHCKPAKALPKEMENFVOSGEGDIYVFSLSLF---QN--VTEERKAN 320
Db 259 rpllpntvvgvlmekrpkpvgdlenfiakfgdsqfvlvelsgmvtncqnpeltekenn 318
Qy 321 IIASALAOIPQKVLWRYK---GKKRSTLGANTRLYDWIPQNDLGHPRTKAFITHGMNG 377
Db 319 ---afahlpqgvawkcgshmpkdvhaanvkivdwipgsdllaahpsirllfvthgqns 374
Qy 378 IYEATYHGVPMVGPVIFGDODNTAHMKAGAYEINKTMSSEDLALRALRVITDSSYK 437
Db 375 imealqghvpmvgyiplfgdqpenmryeakkfysidklkkaelalkmqymedkryk 434
Qy 438 ENAMRLSRHNDQVPKPLDRAVFIETFMRRHGAKHLRSAHADLTWFOHYSIDVIGFLIT 497
Db 435 saavaasviltshpslspqrivgwidhvlqcgatnlkpryvfqrpwheqylfdvfvllg 494
Qy 498 CVATAIFLFTKCFLESCQKFNKTRIEK 525
Db 495 ltlglwlcgkllgmawwllrgarkvke 522

RESULT 11

AA66168 ID AAB66168 standard; protein; 523 AA.

XX AAB66168;

XX 02-APR-2001 (first entry)

XX Protein of the invention #80.

XX Secreted; transmembrane; gene therapy.

XX Unidentified.

XX WO200078961-A1.

XX 28-DEC-2000.

XX 18-FEB-2000; 2000WO-US04342.

XX 23-JUN-1999; 99US-0141037.

XX 20-JUL-1999; 99US-0144758.

XX 26-JUL-1999; 99US-0145698.

XX 01-SEP-1999; 99WO-US20111.

XX 29-OCT-1999; 99US-0162506.

PR 30-NOV-1999; 99WO-US28313.
PR 02-DEC-1999; 99WO-US28551.
PR 16-DEC-1999; 99WO-US30095.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00376.

XX (GETH) GENENTECH INC.

XX Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S;
PI Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
PI Pan J, Paon NF, Roy MA, Smith V, Stewart TA, Tamas D;
PI Watanabe CK, Williams PM, Wood WI;
XX WPI; 2001-071395/08.

XX Secreted and transmembrane proteins and nucleic acids designated PRO,
PT useful as hybridization probes, in chromosome and gene mapping and gene
PT therapy -

XX Claim 1; Fig 160; 787pp; English.

XX The present invention relates to secreted and transmembrane proteins.
XX These proteins and the DNA encoding them may be used as hybridization
XX probes, in chromosome and gene mapping and in the generation of
XX anti-sense RNA and DNA. They may also be used to generate either
XX transgenic animals or knockout animals which are in turn useful for
XX development and screening of therapeutically useful reagents.
XX The nucleic acids may also be used in gene therapy.

XX Sequence 523 AA;

Query Match 25.5%; Score 714.5; DB 22; Length 523;

Best Local Similarity 33.9%; Pred. No. 1.3e-67;

Matches 172; Conservative 93; Mismatches 208; Indels 35; Gaps 13;

34 SHMLNWKVIELLEIRGHEVYVLTGHSK-PSLIDYKPKSAKFEVYH--MPQDRENEIF 90
34 shylmdtvsqllqgdnvmlnhkrgpfmdfkkeek-syqvswslapedhgreffks 92
Db 34 shylmdtvsqllqgdnvmlnhkrgpfmdfkkeek-syqvswslapedhgreffks 92
Qy 91 VDLAL-NVLPGLSTWOSVYKINDFEVEIRGTLKMMCESFIYQOTLMKKLOETNYDVMLID 149
Db 93 fdfleeetlgrgkfenlnvley-----lajqcsfhnrdkmdsknenfmdvive 145
Qy 93 fdfleeetlgrgkfenlnvley-----lajqcsfhnrdkmdsknenfmdvive 145
Db 93 fdfleeetlgrgkfenlnvley-----lajqcsfhnrdkmdsknenfmdvive 145
Qy 150 PVIRCGDLMAELAVPVLTIRISYGVGMERSCKLPAPLSVVPVMTGLTDRMTLEERV 209
Db 146 tfdycpfliaeklgkpfvaistef-gsliefg---lpiplyvpyfrslltchmdfwgrv 201
Qy 210 KNSMLSVLF---HFWIDYDHFMEERYSKALGRPTLCTGVGAELIWLIRTYWDEEFP 265
Db 202 knlfmfscrrqgmstcndtkhefte---gsrpylshlllkaelwfnstdafda 258
Qy 266 QPYOPNFEFVGGLHCKPAKALPKEMENFVOSGEGDIYVFSLSLF---QN--VTEERKAN 320
Db 259 rpllpntvvgvlmekrpkpvgdlenfiakfgdsqfvlvelsgmvtncqnpeltekenn 318
Qy 321 IIASALAOIPQKVLWRYK---GKKRSTLGANTRLYDWIPQNDLGHPRTKAFITHGMNG 377
Db 319 ---afahlpqgvawkcgshmpkdvhaanvkivdwipgsdllaahpsirllfvthgqns 374
Qy 378 IYEATYHGVPMVGPVIFGDODNTAHMKAGAYEINKTMSSEDLALRALRVITDSSYK 437
Db 375 imealqghvpmvgyiplfgdqpenmryeakkfysidklkkaelalkmqymedkryk 434
Qy 438 ENAMRLSRHNDQVPKPLDRAVFIETFMRRHGAKHLRSAHADLTWFOHYSIDVIGFLIT 497
Db 435 saavaasviltshpslspqrivgwidhvlqcgatnlkpryvfqrpwheqylfdvfvllg 494
Qy 498 CVATAIFLFTKCFLESCQKFNKTRIEK 525
Db 495 ltlglwlcgkllgmawwllrgarkvke 522

CC untranslated region (UTR) of the mRNA because they are often obtained
 CC from oligo-dT primed cDNA libraries. Such ESTs are not well suited for
 CC isolating cDNA sequences derived from the 5' ends of mRNAs and even in
 CC those cases where longer cDNA sequences have been obtained, the full 5'
 CC UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5'
 CC ends and can therefore be used to obtain full length cDNAs and genomic
 CC DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and
 CC chromosome mapping procedures. They are used to obtain upstream
 CC regulatory sequences and to design expression and secretion vectors.

XX Sequence 78 AA:

Query Match 14.5%; Score 405; DB 21; Length 78;

Best Local Similarity 100.0%; Pred. No. 1.1e-35; Mismatches 0; Indels 0; Gaps 0;

DB 290 MEMFVSSGSDGIVFVSLGSLFQNVTEERKNIITASALAOIPQVLYMRKGRKSTLGANT 349
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 1 MENTVSSGSDGIVFVSLGSLFQNVTEERKNIITASALAOIPQVLYMRKGRKSTLGANT 60

OY 350 RLYDMIPQNDLGHPRKTK 367
 |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 61 RLYDMIPQNDLGHPRKTK 78

RESULT 14

ID AAY29525 standard; protein; 129 AA.

XX AAY29525;

DT 13-OCT-1999 (first entry)

XX Human lung tumour protein Lr86-5 predicted amino acid sequence.

XX Human; lung tumour protein; therapy; diagnosis; lung cancer; vaccine;
 XX immunotherapy; detection; inhibition.

XX Homo sapiens.

XX WO938973-A2.

XX 05-AUG-1999.

XX 26-JAN-1999; 99MO-US01642.

XX 22-DEC-1998; 98US-0219245.

XX 28-JAN-1998; 98US-0015022.

XX 28-JAN-1998; 98US-0015029.

XX 18-MAR-1998; 98US-0040828.

XX 18-MAR-1998; 98US-0040831.

XX 23-JUL-1998; 98US-0122191.

XX 23-JUL-1998; 98US-0122192.

XX (CORI-) CORIXA CORP.

XX Erudakis TN, Lodes MJ, Mohamath R, Reed SG;

XX WPI; 1999-479187/40.

XX N-PSDB; AA207208.

XX Lung tumour specific polynucleotides for inhibiting the development

XX of lung cancer

XX Example 2; Page 73; 171pp; English.

XX The present invention describes lung tumour specific polynucleotides

XX and tumour antigens. AA207144 to AA207246 and AA208301 to AA208325

XX represent specifically claimed polynucleotides, and AAY29486 to AAY29571

XX represent amino acid sequences from the present invention. The lung

XX tumour specific polynucleotides and polypeptides can be used in

XX pharmaceutical compositions and vaccines to inhibit the development of

CC lung cancer. They can also be used to detect lung cancer in a patient.
 CC Probes and antibodies derived from the lung tumour sequences are useful
 CC in detection of lung cancer.

XX Sequence 129 AA:

Query Match 14.0%; Score 391; DB 20; Length 129;

Best Local Similarity 58.1%; Pred. No. 7.6e-34; Mismatches 36; Indels 0; Gaps 0;

Matches 75; Conservative 18; Mismatches 36; Indels 0; Gaps 0;

OY 301 GIVESLSLGFQNVTEERKNIITASALAOIPQVLYMRKGRKSTLGANTRLVDMIPQNDL 360
 |||||||||||:|||||||:|||||||:|||||||:|||||||:|||||||:|||||||:|||||||
 DB 1 GIVESLSLGFQNVTEERKNIITASALAOIPQVLYMRKGRKSTLGANTRLVDMIPQNDL 60

OY 361 LGHPKTKARFTTHGMMGITYEATYHGVPMGVPIFGPOLNINAMKAKAIVEINFETMTS 420
 |||||:|||||:|:|:|:|||||:|:|||||:|:|||||:|:|||||:|:|||||:|:|||||
 DB 61 LGHPKTKARFTTHGMMGITYEATYHGVPMGVPIFGPOLNINAMKAKAIVEINFETMTS 120

OY 421 EDLLRALRT 429
 ||| ||:|
 DB 121 edledalks 129

RESULT 15

ID AAB44411 standard; protein; 129 AA.

XX AAB44411;

DT 05-FEB-2001 (first entry)

XX Human lung tumour-specific antigen encoded by cDNA #21.

XX Lung tumour protein; lung cancer; cytostatic; vaccine.

XX Homo sapiens.

XX WO200060077-A2.

XX 12-OCT-2000.

XX 30-MAR-2000; 2000MO-US08560.

XX 02-APR-1999; 99US-0285323.

XX 09-AUG-1999; 99US-0370838.

XX 30-DEC-1999; 99US-0476235.

XX 03-MAR-2000; 2000US-0518809.

XX (CORI-) CORIXA CORP.

XX Reed SG, Lodes MJ, Mohamath R, Secrist H;

XX WPI; 2000-638466/61.

XX N-PSDB; AAC79066.

XX Claim 1; Page 99; 243pp; English.

XX The present sequence is given in a specification relating to compounds

XX for therapy and diagnosis of lung cancer. Polypeptides comprising at

XX least an immunogenic part of a lung tumour protein are disclosed.

XX The polypeptides are useful for inhibiting the development of cancer,

XX especially lung cancer. Samples of T cells expressing the polypeptides

XX may be used to inhibit the development of cancer. The polypeptides are

XX also useful for detecting and monitoring the progression of cancer,

XX especially lung cancer.

XX Sequence 129 AA;

